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ROOM NO.	BUILDING	EXTENSION

FORM NO. 241
1 FEB 55

REPLACES FORM 36-8
WHICH MAY BE USED.

(47)

05 MAR 1984

MEMORANDUM FOR THE RECORD

SUBJECT: Project SAFE Briefing for the House Permanent Select Committee on Intelligence (HPSCI) Staff

1. At the request of Mr. James O. Bush, Professional Staff Member of the HPSCI Subcommittee on Program and Budget Authorization, the following personnel provided a briefing on the current status of Project SAFE (Support for the Analyst File Environment), a very large automated data processing developmental project being undertaken on behalf of intelligence analysts in the CIA and the DIA:

Mr. Harry Fitzwater - Deputy Director of Administration (CIA);

[redacted] - Director, Consolidated SAFE Project Office (CSPO) (CIA);

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[redacted] - Deputy Director, CSPO (DIA); and

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[redacted] - Office of Legislative Liaison (CIA).

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The HPSCI Staff present during the briefing were Mr. Bush and Ms. Annette Smiley, who has Subcommittee staff responsibility for the DIA budget.

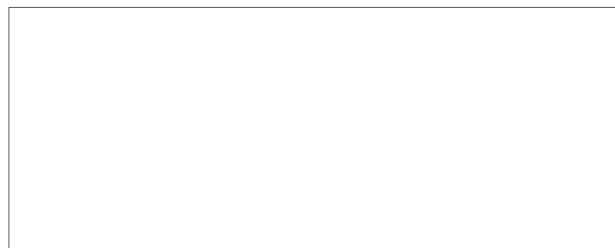
2. [redacted] led the briefing of the HPSCI Staff. The attached are hardcopy of all viewgraphs used during the briefing. The principal focus of the briefing was on project activity during the past year or so, with emphasis on the changes that resulted from a project redirection roughly a year ago. The majority of the questions posed during the briefing concerned the DIA portion of the project in one way or another. The Subcommittee staff was interested in the role that TRW, previously a major contractor in the project, was currently playing. Ms. Smiley expressed concern that the CSPO had not adequately provided for alternative strategies in the event that current developmental strategies did not work out. Messrs. [redacted] and Fitzwater provided strong assurances that, in the event that primary development strategies did not prove fruitful, alternative strategies in fact had been thought through and were available, if necessary, such that risk had been minimized to the extent prudent and practicable.

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3. At the conclusion of the briefing, no action items remained for the briefing team. Copies of viewgraphs were left with the two staff members. The briefing requirement was, in my opinion, very professionally and successfully satisfied.

Attachment:
As stated



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Distribution:

Original - OLL Record Copy w/att

1 - DDA w/o att

1 - D/ODP w/o att

1 - D/CSPO w/o att

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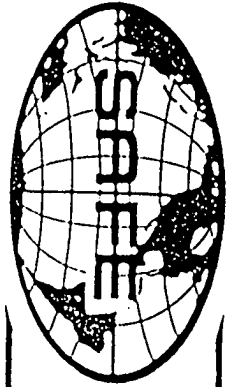
SAFE
SUPPORT FOR THE ANALYSTS' FILE ENVIRONMENT

SAFE IS AN INTERACTIVE, USER-ORIENTED INFORMATION HANDLING SYSTEM DESIGNED TO MODERNIZE THE INTELLIGENCE ANALYSTS'/MANAGERS' OPERATIONAL ENVIRONMENT BY FACILITATING THE PROCESSING AND ANALYSIS OF INTELLIGENCE DATA AND THE SUBSEQUENT PRODUCTION OF FINISHED INTELLIGENCE PRODUCTS.



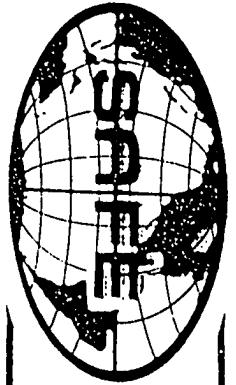
SAFE PROJECT

REQUIREMENTS



USER ENVIRONMENT

- 0 INFORMATION OVERLOAD
- 0 TIME CONSTRAINTS. RAPID TURN-AROUND
- 0 FEWER PEOPLE. MORE TASKS
- 0 DIFFERING AREA AND FUNCTIONAL SPECIALITIES
- 0 NEED FOR COORDINATION
- 0 TURNOVER & TRAINING
- 0 INSTITUTIONAL MEMORY IS SHALLOW



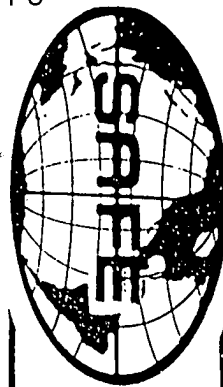
USER POPULATION

- WIDE VARIETY

- INTELLIGENCE ANALYSTS
- INTELLIGENCE ASSISTANTS
- LIBRARY INDEXERS
- ADMINISTRATIVE PERSONNEL
- MANAGERS
- CLERICALS

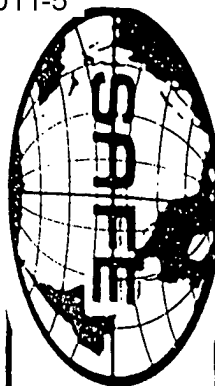
- DIFFERING EXPERIENCE

- NOVICE
- OCCASIONAL
- EXPERIENCED



USER TASKS

- REVIEW NEW INFORMATION
- STORE INFORMATION
- RESEARCH
- PRODUCE INTELLIGENCE
 - WRITE
 - EDIT
 - COORDINATE
- MAINTAIN INTELLIGENCE DATA BASES
 - INITIATE MAINTENANCE ACTION
 - REVIEW & VALIDATE
 - COORDINATE WITH DELEGATED PRODUCER
- MANAGE



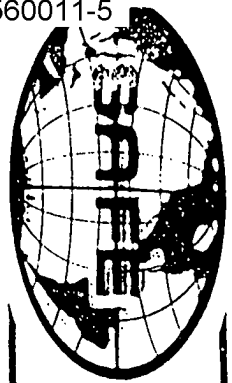
PRIMARY SAFE FILES

- MAIL

- ELECTRONIC CABLES
 - USER, BRANCH, DIVISION LEVELS
 - SUBJECT/AREA SPECIALTY CONTENT
 - DISPLAY, SEARCH MANIPULATE
 - DELIVERY WITHIN MINUTES
 - PRIORITY ALERTS
 - INDIVIDUAL CONTROL OF SELECTION PROFILES
- INDEX FILES
 - PRIVATE "SHOEBOX"
 - BRANCH, STAFF, TASK FORCE, ETC.
 - CENTRAL LIBRARY
 - SYSTEM CATALOG/DOCUMENT

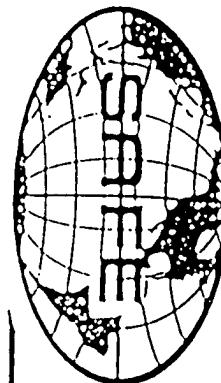
- ROUTE FILES

- CABLES OR OTHER DATA
- USER TO USER, BRANCH, STAFF, ETC.
- ROUTE LISTS



PRIMARY SAFE FILES (Cont'd)

- STRUCTURED FILES
 - PUBLIC PRODUCTION DATA BASES
 - CRISIS MANAGEMENT
 - PRIVATE DATA BASES
- SUPPORT FILES
 - PROFILE
 - FORMATS FOR INPUT/OUTPUT
 - COMMAND PROCEDURES
 - CANNED QUERIES
- SYSTEM
 - SESSION HISTORY
 - MANAGEMENT INFORMATION



USER SERVICES

0 SEARCH

0 WORD PROCESSING

- INDEX

- TEXT

0 ROUTE

- STRUCTURED

- PARALLEL

- GEOGRAPHIC

- SERIAL

- MULTI-FILE

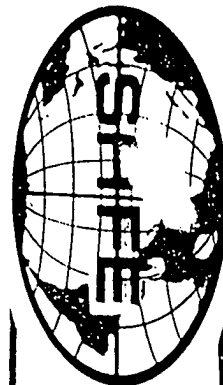
0 MAINTAIN

- TERMINAL BASED

- MASS MAINTENANCE

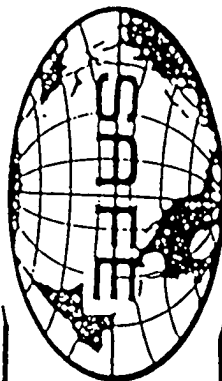
- DATA VALIDATION

- AUTOMATIC FILE BUILD



USER SERVICES (Cont'd)

- DISPLAY/PRINT
 - SYSTEM FORMATS
 - USER FORMATS
- TERMINAL
 - PROGRAMMABLE FUNCTION KEYS
 - WORD PROCESSING
 - SPLIT SCREENS
 - SEPARATE WORK & SYSTEM AREAS
- USER AIDS
 - FILE STATUS
 - HELP
 - SYSTEM MESSAGES



ACTIVITY REVIEW
SDR TO PRESENT

SDR HELD IN FEBRUARY 1983

0 , DEFINED BASIC SYSTEM DESIGN

0 DID NOT INCLUDE SAFE EARLY CAPABILITY (PER REDIRECTION)

SAFE EARLY CAPABILITY (SEC)

0 EXISTING CIA S/W USING IBM H/W

0 OPERATIONAL FOR CIA IN APRIL, DIA IN JUNE

SAFE PROJECT PLAN PROMULGATED IN JULY

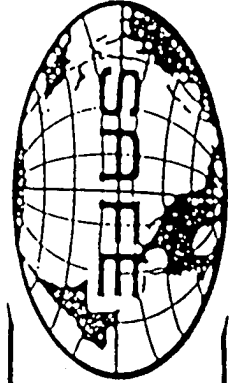
0 SYSTEM DESIGN REFINED TO INCLUDE 5 INCREMENTAL DELIVERIES

0 CONTRACT NEGOTIATION TO SUPPORT DEVELOPMENT EFFORT BASED
ON PROJECT PLAN

DELIVERY 1

0 NEW DISSEMINATION ALGORITHM INSTALLED ON C SYSTEM IN DECEMBER

0 INSTALLATION COMPLETED FOR D SYSTEM IN JANUARY



ACTIVITY REVIEW (CONTINUED)

DELIVERY 2

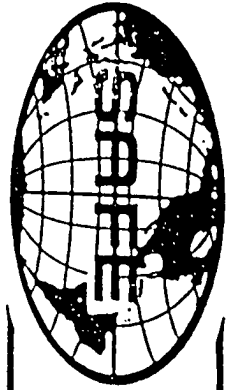
- 0 PRELIMINARY DESIGN REVIEW HELD IN SEPTEMBER
- 0 PRELIMINARY DESIGN BASELINED
- 0 SUPPORTING SYSTEM LEVEL DOCUMENTATION BASELINED
- 0 DETAIL DESIGN INITIATED - CDR BEGAN IN FEBRUARY

DELIVERY 3

- 0 PRELIMINARY DESIGN REVIEW HELD IN DECEMBER
- 0 PRELIMINARY DESIGN BASELINE COMPLETED IN FEBRUARY

DELIVERY 4

- 0 SUPPORTING SYSTEM LEVEL DOCUMENTATION BEING DEVELOPED



EARLY CAPABILITY

0 SAFE-C (APRIL 1983) AND SAFE-D (JUNE 1983)

0 MAIL FILES

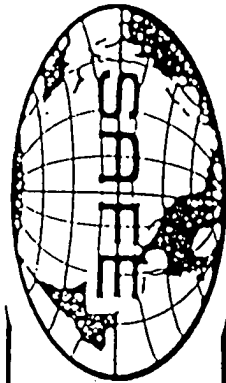
- INTELLIGENCE CABLES
- INTEREST PROFILES USER CONTROLLED
- HOURLY UPDATES; 20 DAYS ON-LINE

0 TEXT SEARCH

- TEXT SEARCH OF CABLES
- 3 MONTHS ON-LINE
- PRIVATE FILES

0 AIM

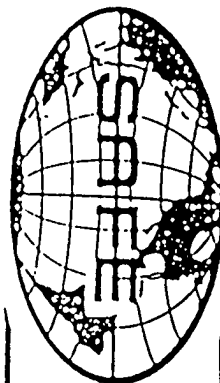
- INTERNALLY COMPOSED MEMOS, ETC.
- ROUTE, COORDINATE, COMMUNICATE
- FORMATTING CAPABILITIES



SAFE DELIVERY 1

SAFE-C (NOV. 1983) AND SAFE-D (DEC. 1983)

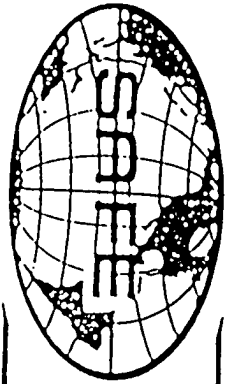
- 0 NEW DISSEMINATION ALGORITHM - CRM
- 0 MODEL 204 DATA BASE MANAGEMENT SYSTEM - TRW/CCA & ODP
- 0 INQUIRE DATA BASE MANAGEMENT SYSTEM - INFODATA



SAFE DELIVERY 2

SAFE-C (NOV. 1984)

- 0 SINGLE USER LOGON - CRW
- 0 DOCUMENT AND SYSTEM CATALOG FILES IN INQUIRE DBMS - INFODATA
- 0 INITIAL INTEGRATION OF AIM AND MAIL FUNCTIONS - CRW & ODP
- 0 INTRODUCTION OF SAFE USER INTERFACE COMMANDS AND BASIC SCREEN CONFIGURATIONS - CRW & TRW
- 0 INTERMACHINE (MVS-VM) COMMUNICATIONS - ODP



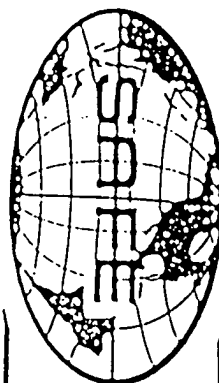
SAFE DELIVERY 3

SAFE-D (MAR. 1985)

- 0 ALL FUNCTIONS INCLUDED IN SAFE-C DELIVERY 2 (NOV. 1984)
- 0 SECOND PASS DISSEMINATION (CRD & HUMINT CONVERSION) - CRW & TRW
- 0 SIMPLE INDEX FILE IN INQUIRE DBMS - INFODATA & CRW
- 0 PROTOTYPE DODIIS NETWORK FRONT-END TRW & MITRE

SAFE-C (JUN 1985)

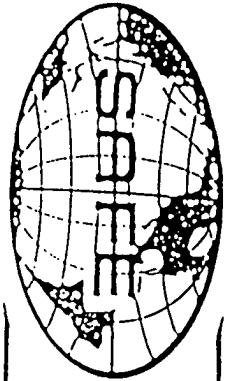
- 0 SIMPLE INDEX FILE IN INQUIRE DBMS - INFODATA & CRW



SAFE DELIVERY 4

SAFE-D (AUG 1985) DELIVERY

- 0 AIF, DIOBS & ELINT CONVERSION - TRW
- 0 OPERATIONAL INTERFACE TO DODIIS - TRW & MITRE
- 0 USER INTERFACE ENHANCEMENTS TO INCLUDE MODEL 204 DBMS
INTERFACE - CRW & TRW
- 0 BATCH PROCESSING SUPPORT - TRW
- 0 COLLATERAL PRODUCTION - TRW



SAFE DELIVERY 5

SAFE-C (DEC 1985) DELIVERY

- 0 USER INTERFACE ENHANCEMENTS FROM SAFE-D AUG. 1985 DELIVERY AND ENHANCEMENTS TO SUPPORT SYNCHRONOUS ACTIVITIES - CRW & TRW
- 0 CENTRAL INDEX FILE AND RELATED PRODUCTS IN INQUIRE DBMS - INFODATA, TRW & CRW

SAFE-D (FEB 1986) DELIVERY

- 0 USER INTERFACE ENHANCEMENTS TO SUPPORT SYNCHRONOUS ACTIVITIES - CRW & TRW

OTHER SAFE-C AND D DELIVERIES WILL BE SCHEDULED IN LATE 1986 & 1987

PROJECT PLAN SCHEDULE

	1983 J F M A M J J A S O N D	1984 J F M A M J J A S O N D	1985 J F M A M J J A S O N D	1986 J F M A M J J A S
DELIVERY 2 SAFE C	SDR PDR	CDR PQT FQT STC AT		
DELIVERY 3 SAFE C & D	PDR	CDR PQT FQT STC AT	D FQT STC AT	
DELIVERY 4 SAFE D		PDR CDR	PQT FQT STC AT	
DELIVERY 5 SAFE C & D		PDR	CDR PQT FQT STC AT	FQT STC AT



SCHEDULE LEGEND

PDR - PRELIMINARY DESIGN REVIEW

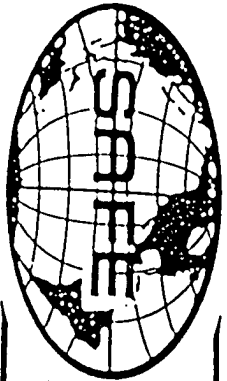
- 0 FUNCTIONAL ALLOCATION OF REQUIREMENTS TO CPCI. DEVELOPER PRESENTS PRELIMINARY DESIGN OF CPCI IN THE PRELIMINARY DESIGN SPECIFICATION (B-5). REVIEW PROCESS ALLOWS DEVELOPER TO PROCEED TO DETAIL DESIGN.

CDR - CRITICAL DESIGN REVIEW

- 0 DEVELOPER PRESENTS DETAILED DESIGN OF SOFTWARE COMPONENTS IN A "CODE-TO" DETAIL DESIGN SPECIFICATION (C-5). REVIEW PROCESS ALLOWS DEVELOPER TO PROCEED TO SOFTWARE CODING PHASE.

PQT - PRELIMINARY QUALIFICATION TEST

- 0 UPON COMPLETION OF CODE AND TEST PHASE, DEVELOPER DEMONSTRATES THE FUNCTIONALITY ASSIGNED TO SOFTWARE COMPONENTS. COMPONENTS ARE THEN MADE AVAILABLE FOR INTEGRATION WITH OTHER COMPONENTS.



SCHEDULE LEGEND (CONTINUED)

FQT - FORMAL QUALIFICATION TEST

0 AFTER ALL COMPONENTS ARE INTEGRATED INTO A "DELIVERY SOFTWARE PACKAGE", FQT DEMONSTRATES THE FULLY INTEGRATED SYSTEM

STC - SYSTEM TEST COMPLETE

0 THREAD AND STRESS TESTING ARE COMPLETE. SYSTEM IS MADE READY FOR ACCEPTANCE TESTING

AT - ACCEPTANCE TEST

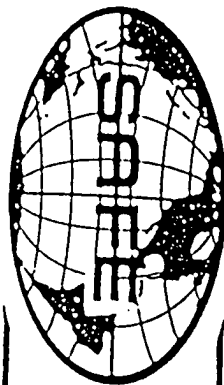
0 SYSTEM IS TESTED TO VALIDATE THE SATISFACTION OF ALLOCATED REQUIREMENTS



PROJECT PLAN SCHEDULE CONSTRAINT

PRODUCED AROUND FY85 CONSTRAINT

- 0 FINAL CONVERSION OF ALL DIAOLS CATEGORY A FILES MUST BE ACCOMPLISHED BY CLOSE OF FY 85
- 0 BACKWARD SCHEDULING APPLIED TO PLACE SYSTEM MILESTONES IN MOST APPROPRIATE PLACE
 - ALLOWING BEST GUESS ESTIMATES OF DURATION FOR EACH ACTIVITY
 - SEQUENCING DELIVERIES TO EACH AGENCY
- 0 PLACE DELIVERY 5 ON SCHEDULE AS SOON AS POSSIBLE AFTER DELIVERY 4



SCHEDULE ISSUE

SEC

0 CIA - ON SCHEDULE

0 DIA - 1 MONTH DELAY

DELIVERY 1

0 BOTH DELIVERIES DELAYED 1 MONTH

PRELIMINARY DESIGN REVIEWS

0 SAME RESOURCES SUPPORT BOTH 2 & 3

0 PDR-3 DELAYED 1 MONTH

CRITICAL DESIGN REVIEW

0 CDR - 2 PREPARATION DELAYED 1 MONTH (SCHEDULED THIS MONTH)

CONCLUSION

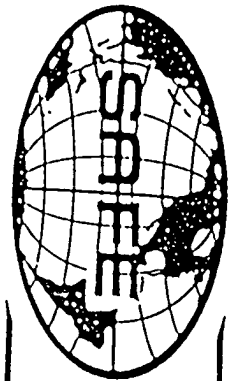
0 MANY CONCURRENT ACTIVITIES CAUSING DELAYS IN SAFE DEVELOPMENT AND IMPLEMENTATION

0 RESOURCE CONTENTION EVIDENT ON ALL SAFE PARTICIPANTS

- GOVERNMENT

- CONTRACTOR

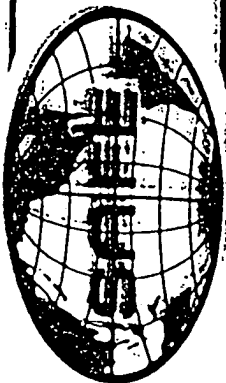
0 NEED TO EVALUATE THE VALIDITY AND RISK OF PROJECT PLAN SCHEDULE



SCHEDULE RE-ASSESSMENT

- 0 SUBSEQUENT TO PDR 2&3
- 0 PROPOSED SCHEDULE FOR 2&3
 - INDIVIDUAL CONTRACTOR FEEDBACK
 - INTER-CONTRACTOR DEPENDENCIES
 - DETAILED PERT CHARTS - GEODYNAMICS
 - EVALUATION BY CSPO
- 0 PROPOSED SHCEDULE FOR 4&5
 - ONLY SUPERFICIAL INPUT FROM CONTRACTORS
 - DETAILED PERT NOT POSSIBLE
 - BASED PRIMARILY ON EVALUATION BY CSPO

PROPOSED SCHEDULE

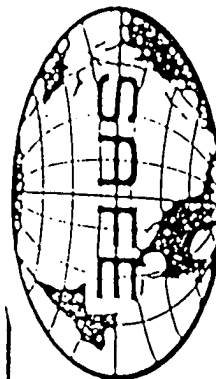


	1983 J F M A M J J A S O N D	1984 J F M A M J J A S O N D	1985 J F M A M J J A S O N D	1986 J F M A M J J A S O N D
DELIVERY 2 SAFE C	SOR Δ PDR	Δ CDR Δ PQT FQT	Δ Δ STC AT	
DELIVERY 3 SAFE C & D	Δ PDR	Δ CDR	A D Δ PQT FQT Δ Δ STC AT FQT Δ Δ Δ AT STC	
DELIVERY 4 SAFE D		Δ PDR	Δ CDR Δ PQT FQT	Δ Δ STC AT
DELIVERY 5 SAFE C & D			Δ PDR Δ CDR Δ PQT	C Δ Δ STC AT Δ FQT STC AT Δ Δ FQT STC AT



SCHEDULE COMPARISON

	1983	1984	1985	1986
2	PLAN PROPOSED	SEP PDR PDR SEP	NOV AT 4 MONTHS MAR AT	
3	PLAN PROPOSED	NOV PDR PDR DEC	MAR AT 5 MONTHS AT AUG	
4	PLAN PROPOSED	MAR PDR	AUG AT 7 MONTHS	AT MAR
5	PLAN PROPOSED		DEC PDR FEB	DEC AT 4 MONTHS AT APR



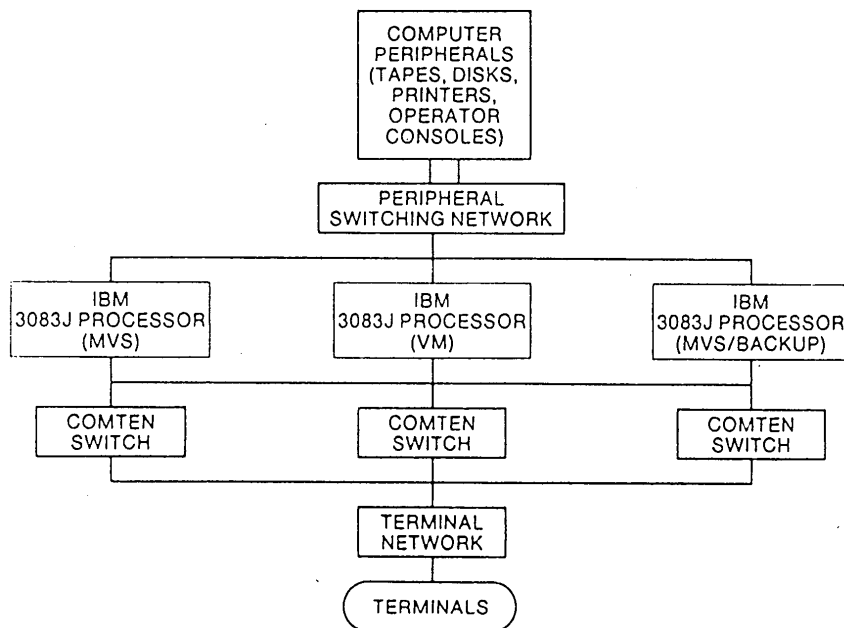
MAJOR OUTSTANDING ISSUES

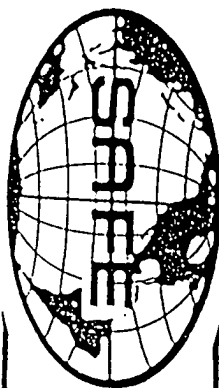
0 IMPACT OF IDB ON DELIVERIES 4 & 5

0 SAFE USER LANGUAGE (SUL)



SAFE HARDWARE CONFIGURATION CIA PRODUCTION SYSTEM





CIA--SAFE HARDWARE CONFIGURATION

1 MARCH 1984

0 PRODUCTION SYSTEM

3 3083J PROCESSORS

2XWVS

1XVM

1 3211 PRINTER (SWITCHABLE)

8 3420 TAPE DRIVES (1600/6250 BPI)

68 3380 STORAGE SYSTEMS (43.2)

14 3350 DASD (4.4 GB)

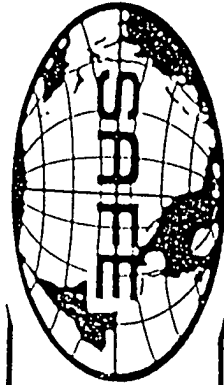
2 STC 4305 SOLID STATE DRUMS (45 MB EACH)

3 COMTEN 3690 FRONT-END PROCESSORS

0 TERMINALS - DELTA DATA 8260T

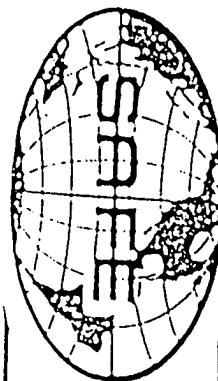
0 LOCAL PRINTERS - DATA ROYAL 5000

0 REGIONAL PRINTERS - ZEROX 2700



HARDWARE CONFIGURATION
SAFE DEVELOPMENT/BACKUP SYSTEM

0	DEVELOPMENT/BACKUP
1	3083J PROCESSOR
	- MVS UNDER VM
4	3420 TAPE DRIVES
32	3380 STORAGE SYSTEMS (21.5 GB)
4	3350 DASD* (2.4 GB)
1	STC 4305 (45 MB)
0	TERMINALS - DELTA DATA 7260T



HARDWARE CAPACITY
CURRENT & PROJECTED

CIA

END OF FY:

1. CPU POWER ¹
2. DASD IN G-BYTES
3. FEP (COMTEN 3690)
4. USERS TERMINALS
(DOES NOT INCLUDE
SUPPORT FUNCTIONS)
5. REGIONAL, HIGH QUALITY
PRINTERS

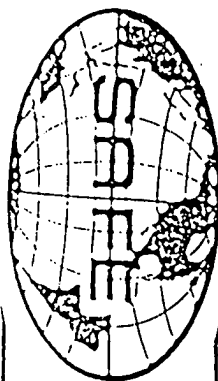
83	84	85	86	87	88
3	2 3083J 3081K	2 3081K 3084Q	1 3081K 3084Q	SAME AS 86	?
47.6	55.2	64.7	84.9	105.2	?
3	4	5	6	7	?
300	500	850	1350	1825	2000
8	29	65	101	137	173

¹CPU POWER

83J - 7.5 MIPS

81K - 15 MIPS

84Q - 27 MIPS



HARDWARE CAPACITY
CURRENT & PROJECTED

DIA

END OF FY:

1. CPU POWER ¹
2. DASD IN G-BYTES
3. FEP (COMTEN 3690)
4. USERS TERMINALS
(DOES NOT INCLUDE
SUPPORT FUNCTIONS)
5. REGIONAL, HIGH QUALITY
PRINTERS

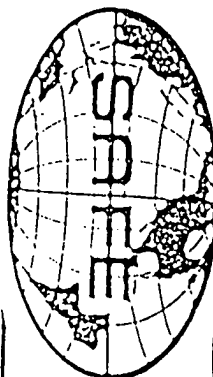
83	84	85	86	87	88
2	3	2 3083J 1 3084Q	1 ea 3083J 3081K 3084Q	SAME AS 86	?
3083J	3083J	3084Q	3081K	86	?
12.0	42.5	SAME AS 84	?	?	?
2	3	3	3	3	3
89	119	261	494	514	840
1	1	?	?	?	?

¹CPU POWER

83J - 7.5 MIPS

81K - 15 MIPS

840 - 27 MIPS



HARDWARE CAPACITY
CURRENT & PROJECTED

UNCLASSIFIED/DEVELOPMENT

END OF FY:

1. CPU POWER ¹

2. DASD IN G-BYTES

3. FEP (COMTEN 3690)

4. USERS TERMINALS
(DOES NOT INCLUDE
SUPPORT FUNCTIONS)
5. REGIONAL, HIGH QUALITY
PRINTERS

¹CPU POWER

83J - 7.5 MIPS

81K - 15 MIPS

840 - 27 MIPS

83	84	85	86	87	88
1 3083J	1 3083J	1 3083J	1 3081K	SAME AS 86	?
19.1	21.5	21.5	24.0	24.0	?
1	1	1	1	1	?
45	102	?	?	?	?
0	10	?	?	?	?



USER AND TERMINAL POPULATIONS

1 MARCH 1984

TERMINALS

USERS

SAFE-C

ANALYST

363

432

OTHER (SURE, OT&E, ODP)

80

SAFE-D

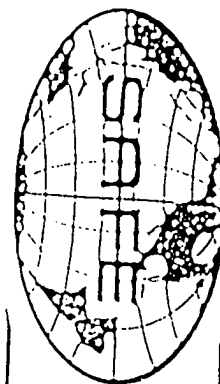
ANALYST

89

160

OTHER (CSG, RSO, RCM)

32



SAFE FUNDING PROFILE SUMMARY
FY 1984 - FY 1988
(\$ MILLIONS)

SECRET

	FY 84		FY 85		FY 86		FY 87		FY 88	
	CIA	DIA	CIA	DIA	CIA	DIA	CIA	DIA	CIA	DIA
COMPUTER HARDWARE & OPERATING SYSTEM	4.94	4.73	10.78	9.49	5.41	6.08	3.04	2.35	1.24	4.17
TERMINALS/ PRINTERS	.81	1.11	1.70	1.09	2.40	2.76	2.40	2.68	1.81	1.20
HARDWARE MAINTENANCE	.88	.73	1.25	.99	1.59	1.29	1.78	1.56	1.68	1.98
CONTRACTUAL SERVICES (SOFTWARE & CONVERSION)	12.74	12.15	11.51	9.74	8.97	7.15	5.71	3.01	6.64	1.01
TRAVEL	.06	.05	.06	.05	.07	.05	.08	.05	.08	.05
TOTAL	19.43	18.77	25.30	21.36	18.44	17.33	13.01	9.65	11.45	8.41

SECRET